

# VAIDEHI BEDEKAR

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github

## Education

Vellore Institute of Technology, AP

Bachelor of Technology in Computer Science

Sep. 2020 – May 2024

8.3 cgpa

## Coursework

- Data Structures
- Machine Learning
- Algorithm Analysis
- Software Engineering
- Deep Learning
- Database Management
- Cloud Computing
- OOPs

## Experience

Freelancer

Feb 2023 - Sept 2023

- Developed a cutting-edge heart rate detection system using facial videos by signal processing techniques and fusion of hybrid CNN-LSTM model for heart rate predictions.
- Designed a Depression detection app with separate CNN and LSTM models on social media tweets. Utilized Principal Component Analysis for feature selection and orchestrated a potent fusion in an FCNN, boosting predictive accuracy significantly.

## Projects

Doc-Aid: Medical Recommendation Application | PHP, HTML, CSS, Python, Flask, Cypher query

Present

- Developed a healthcare app, minimizing medical procedure times and misinformation. Engineered a **weighted knowledge graph** from diverse medical data and developed advanced Bio-Epidemiology NER, and fusion of Naive Bayes and ANN. Implemented user-friendly features, including disease tracking and prescription uploads.

PCOS Detection using MLOPS DVC Pipeline | Python, Deep Learning

June 2023

- Orchestrated a high-accuracy Python application leveraging a hybrid CNN model **95.3 %** for Polycystic Ovary Syndrome detection from ultrasound images. Pioneered efficient MLOps with DVC, modularized codebase, and implemented CI/CD automation via GitHub for streamlined development and deployment.

Stock Sentiment analysis and Prediction Application | Python, Streamlit

April 2023

- Developed and deployed an interactive web app on Streamlit for real-time stock prediction and sentiment analysis. Engineered a robust News and Sentiment Pipeline integrating Financial-summarization-peagasus and Stacked LSTM models for precise financial insights.

## Technical Skills

Languages: Python, Java, HTML/CSS, SQL

Developer Tools: VS Code, Anaconda, Cuda, IntelliJ, AWS, Android Studio, Docker

Technologies/Frameworks: TensorFlow, PyTorch, Keras, ScikitLearn, Git, StreamLit, Docker, Linux, Machine Learning, Deep Learning, NLP, Pandas, Numpy, CUDA, Nodejs, Android, CI/CD

## Position of Responsibility

President of Hostel Sports Committee at VIT-AP University

July 2022 – Dec 2022

President of Marathi Association at VIT-AP University

Jan 2023 - May 2023

## Achievements

Research paper published in EAI Endorsed Transactions on Pervasive Health and Technology

June 2023

- \* Paper Title : Reinforced Hybrid Graph Transformer for Medical Recommendation. Collaborated with Aditya Kadam and Prof. Sagar Pande to develop MEDx: A pioneering Hybrid Graph and GPT-powered Medical Recommendation System.

Secured 7th Rank among all Engineering Clinics Group Projects in VIT AP

May 2023

- \* Designed cost-efficient weapon and intruder detection drone leveraging YOLOv8 with an accuracy of **85 %** for real-time firearm identification in live video streams.